AMENDMENTS TO THE ABSTRACT

Please amend paragraph [0039] as follows:

[0039] A frequency harmonic identifier for detecting series arcs on a power line includes a frequency analyzer for providing the harmonic content of a sensed current signal and a decision logic for comparing a tested signal to at least one reference signal band. The reference signal band or bands may represent a variety of common loads and if the tested signal does not match any of the sets of reference signal bands, then the logic determines the tested signal to be a series arc signal. The frequency harmonic identifier may be provided within a circuit interrupter and may issue a trip signal if the tested signal is determined to be a series arc signal. Also disclosed is a [[A]] method for detecting series arcs, includes sensing current on a power line and providing a sensed current signal as-an input signal to a frequency harmonic identifier, performing a Fast Fourier Transform on the input signal for providing a tested signal, accessing a storage area storing at least one reference signal-band, comparing the tested signal to the at least one reference signal band and determining if the tested signal is a series are signal through comparison and, if the test signal is a series are signal, sending a trip signal. A and a storage medium may also be encoded with machine-readable computer program code for detecting series arcs on a power line, wherein the storage medium includes having instructions for causing a computer to implement the method.